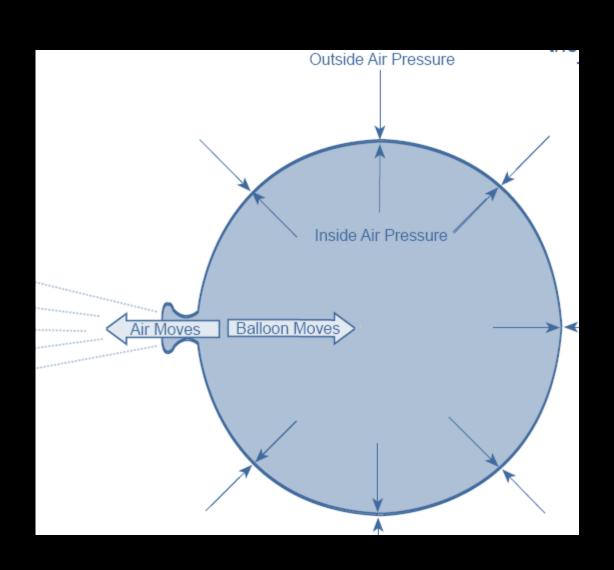




Вы уже ракетыми учёныями!

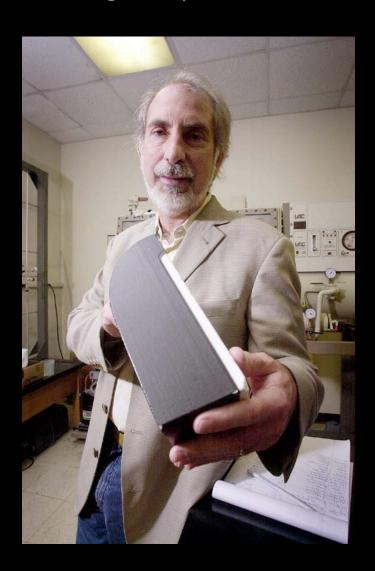


http://mediaarchive.ksc.nasa.gov/search.cfm

Комманд по ____ до подсадкы KSC-09-S-0039 – Go for de-orbit burn



Space shuttle silica tiles are excellent thermal insulators: white hot 2300° F silica thermal protection being safely hand held 10 seconds after removal from high temperature oven.



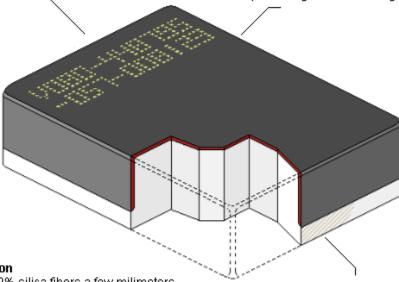
High-temperature Reusable Surface Insulation (HRSI)

Identification number

Each tile has an identification number which tells batch and location. This number can be fed into a computer to produce an identical tile.

Coating

The outer portion of a tile is covered with a black-glazed coating of borosilicate.
These tiles do most of the coating job by shedding about 95% of the heat encountered.
The remaining 5% is absorbed by the tile's interior, preventing it from reaching the orbiter's aluminum skin.



Composition

90% air, 10% silica fibers a few milimeters thick. The tiles feels similar to plastic foam. The silica fibers are derived from high-quality sand.

Gluo

A silicon-rubber glue similar to common bathtub caulking, bonds a tile to a felt pad, that is in turn bonded to the orbiter's skin. The felt absorbs the stresses of airframe bending that could damage the tiles.





Alligator Alley





Tile Inspections



Tile Replacement





























